RCP/p

Permit No. TX0007048

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C... 1251 et. seq; the "Act"),

The Lubrizol Corporation
P.O. Box 158
Deer Park, Texas 77536

is authorized to discharge from a facility located on Tidal Road in Harris County, Texas

to receiving waters named Patrick's Bayou; thence to the Houston Ship Channel in Segment No. 1006 of San Jacinto River Basin

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I (14 pages), II (6 pages), and III (6 pages) hereof.

This permit shall become effective on October 25, 1993

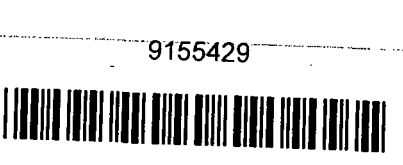
This permit and the authorization to discharge shall expire at midnight, January 15, 1995

Signed and issued this 24th day of September 1993

prepared by

Allen T. Chang
Allen T. Chang
Toxics Control Section
(6W-PT)

Myron O. Knudson, P.E.
Director
Water Management Division (6W)



PART I
REQUIREMENTS FOR NPDES PERMITS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALL 001

During the period beginning January 16, 1991 and lasting through the expiration date, the permittee is authorized to discharge from Outfall 001: treated process wastewater.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations			
	Mass(lbs/day)		Other Units (mg/l)	
	Daily Avg	Daily Max	Daily Avg	Daily Max
Flow (MGD)	N/A	N/A	Report	Report
BOD_5	104	194	N/A	N/A
TSS	328	790	N/A	N/A
TOC	834	1488	N/A	N/A
Oil & Grease	83	180	N/A	N/A
Ammonia - N	96	192	N/A	N/A
Acenaphthene	0.15	0.39	N/A	N/A
Acrylonitrile	0.64	1.6	N/A	N/A
Benzene	0.25	0.9	N/A	N/A
Carbon Tetrachloride	0.12	0.25	N/A	N/A
Chlorobenzene	0.1	0.19	N/A	N/A
1,2,4-Trichlorobenzene	0.45	0.93	N/A	N/A
Hexachlorobenzene	0.1	0.19	N/A	N/A
1,2-Dichloroethane	0.45	1.4	N/A	N/A
1,1,1-Trichloroethane	0.14	0.36	N/A	N/A
Hexachloroethane	0.14	0.36	N/A	N/A
1,1-Dichloroethane	0.15	0.39	N/A	N/A
1,1,2-Trichloroethane	0.14	0.36	N/A	N/A
Chloroethane	0.69	1.77	N/A	N/A
Chloroform	0.14	0.3	N/A	N/A
2-Chlorophenol	0.21	0.65	N/A	N/A
1,2-Dichlorobenzene	0.51	1.08	N/A	N/A
1,3-Dichlorobenzene	0.21	0.29	N/A	N/A
1,4-Dichlorobenzene	0.1	0.19	N/A	N/A
1,1-Dichloroethylene	0.11	0.17	N/A	N/A
1,2-trans-Dichloroethylene	0.14	0.36	N/A	N/A
2,4-Dichlorophenol	0.26	0.74	N/A	N/A
1,2-Dichloropropane	1.01	1.52	N/A	N/A

1,3-Dichloropropylene	0.19	0.29	N/A	N/A
2,4-Dimethylphenol	0.12	0.24	N/A	N/A
2,4-Dinitrotoluene	0.75	1.89	N/A	N/A
2,6-Dinitrotoluene	1.69	4.24	N/A	N/A
Ethylbenzene	0.21	0.72	N/A	N/A
Fluoranthene	0.17	0.45	N/A	N/A
Bis(2-Chloroisopropyl)Ether	1.99	5.01	N/A	N/A
Methylene Chloride	0.26	0.59	N/A	N/A
Methyl Chloride	0.57	1.26	N/A	N/A
Hexachlorobutadiene	0.13	0.32	N/A	N/A
Naphthalene	0.15	0.39	N/A	N/A
Nitrobenzene	0.18	0.45	N/A	N/A
2-Nitrophenol	0.27	0.46	N/A	N/A
4-Nitrophenol	0.48	0.82	N/A	N/A
2,4-Dinitrophenol	0.47	0.81	N/A	N/A
4,6-Dinitro-o-Cresol	0.52	1.83	N/A	N/A
Phenol	0.1	0.17	N/A	N/A
Bis(2-Ethylhexyl) Phthalate	0.68	1.85	N/A	N/A
Di-n-Butyl Phthalate	0.18	0.38	N/A	N/A
Diethyl Phthalate	0.54	1.34	N/A	N/A
Dimethyl Phthalate	0.13	0.31	N/A	N/A
Benzo(a)anthracene	0.15	0.39	N/A	N/A
Benzo(a)pyrene	0.15	0.4	N/A	N/A
3,4-Benzofluoranthene	0.15	0.4	N/A	N/A
Benzo(k)fluoranthene	0.15	0.39	N/A	N/A
Chrysene	0.15	0.39	N/A	N/A
Acenaphthylene	0.15	0.39	N/A	N/A
Fluorene	0.15	0.39	N/A	N/A
Phenanthrene	0.15	0.39	N/A	N/A
Pyrene	0.17	0.44	N/A	N/A
Tetrachloroethylene	0.15	0.37	N/A	N/A
Toluene	0.17	0.53	N/A	N/A
Trichloroethylene	0.14	0.36	N/A	N/A
Vinyl Chloride	0.69	1.77	N/A	N/A
Total Chromium	7.35	18.34	N/A	N/A
Total Copper	0.07	0.07	N/A	N/A
Total Cyanide	0.14	0.14	N/A	N/A
Total Lead	0.34	0.73	N/A	N/A
Total Nickel	0.31	0.65	N/A	N/A
Total Zinc	1.86	3.94	N/A	N/A

	DAILY AVERAGE MINIMUM(*2)	7-DAILY MINIMUM (*3)
Whole Effluent Lethality (7-Day NOEC) (*1)	27%	27%

Effluent Characteristic	Monitoring Requirements	
	Measurement Frequency	Sample Type
Flow (MGD)	Continuous	Record
BOD_5	2/week	24-hr. composite
TSS	2/week	24-hr. composite
TOC	1/day	24-hr. composite
Oil & Grease	2/week	Grab
Temperature	3/day	In Situ
Ammonia - N	1/week	24-hr. composite
Acenaphthene	1/year	24-hr. composite
Acrylonitrile	1/year	24-hr. composite
Benzene	1/year	24-hr. composite
Carbon Tetrachloride	1/year	24-hr. composite
Chlorobenzene	1/year	24-hr. composite
1,2,4-Trichlorobenzene	1/month	24-hr. composite
Hexachlorobenzene	1/year	24-hr. composite
1,2-Dichloroethane	1/year	24-hr. composite
1,1,1-Trichloroethane	1/year	24-hr. composite
Hexachloroethane	1/year	24-hr. composite
1,1-Dichloroethane	1/year	24-hr. composite
1,1,2-Trichloroethane	1/year	24-hr. composite
Chloroethane	1/year	24-hr. composite
Chloroform	1/year	24-hr. composite
2-Chlorophenol	1/year	24-hr. composite
1,2-Dichlorobenzene	1/year	24-hr. composite
1,3-Dichlorobenzene	1/year	24-hr. composite
1,4-Dichlorobenzene	1/year	24-hr. composite
1,1-Dichloroethylene	1/year	24-hr. composite
1,2-trans-Dichloroethylene	1/year	24-hr. composite
2,4-Dichlorophenol	1/year	24-hr. composite
1,2-Dichloropropane	1/year	24-hr. composite
1,3-Dichloropropylene	1/year	24-hr. composite
2,4-Dimethylphenol	1/year	24-hr. composite
2,4-Dinitrotoluene	1/year	24-hr. composite
2,6-Dinitrotoluene	1/year	24-hr. composite
Ethylbenzene	1/month	24-hr. composite
Fluoranthene	1/year	24-hr. composite
Bis(2-Chloroisopropyl)Ether	1/year	24-hr. composite
Methylene Chloride	1/year	24-hr. composite
Methyl Chloride	1/year	24-hr. composite
Hexachlorobutadiene	1/year	24-hr. composite
Naphthalene	1/year	24-hr. composite
Nitrobenzene	1/year	24-hr. composite
2-Nitrophenol	1/year	24-hr. composite
4-Nitrophenol	1/year	24-hr. composite
2,4-Dinitrophenol	1/year	24-hr. composite

4,6-Dinitro-o-Cresol	1/year	24-hr. composite
Phenol	1/week	24-hr. composite
Bis(2-Ethylhexyl) Phthalate	1/year	24-hr. composite
Di-n-Butyl Phthalate	1/year	24-hr. composite
Diethyl Phthalate	1/year	24-hr. composite
Dimethyl Phthalate	1/year	24-hr. composite
Benzo(a)anthracene	1/year	24-hr. composite
Benzo(a)pyrene	1/year	24-hr. composite
3,4-Benzofluoranthene	1/year	24-hr. composite
Benzo(k)fluoranthene	1/year	24-hr. composite
Chrysene	1/year	24-hr. composite
Acenaphthylene	1/year	24-hr. composite
Fluorene	1/year	24-hr. composite
Phenanthrene	1/year	24-hr. composite
Pyrene	1/year	24-hr. composite
Tetrachloroethylene	1/year	24-hr. composite
Toluene	1/week	24-hr. composite
Trichloroethylene	1/year	24-hr. composite
Vinyl Chloride	1/year	24-hr. composite
Total Chromium	1/year	24-hr. composite
Total Copper	1/month	24-hr. composite
Total Cyanide	1/month	24-hr. composite
Total Lead	1/month	24-hr. composite
Total Nickel	1/month	24-hr. composite
Total Zinc	1/week	24-hr. composite
Lethality (7-Day NOEC)		
Mysidopsis bahia	1/quarter	24-Hr. Composite
Menidia beryllina (*5)	1/quarter	24-Hr. Composite

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored continuously (*4).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At the parshall flume prior to discharge to Patrick's Bayou.

FOOTNOTES

(*1) Compliance with the Whole Effluent Lethality limitation is required on January 10, 1995. The No Observed Effect Concentration (NOEC) is defined as the greatest effluent dilution which does not elicit lethality that is statistically different from the control (0% effluent) at the 95% confidence level. The DAILY AVERAGE MINIMUM and the 7-DAILY MINIMUM whole effluent NOEC lethality values shall not be less than 27% effluent. See Part II, Whole Effluent Toxicity Testing Requirements.

(*2) If more than one valid test for a species was performed during the reporting period, the test NOECs will be averaged arithmetically and reported as the DAILY AVERAGE MINIMUM NOEC for that reporting period.

(*3) The lowest NOEC test result for either species tested for the reporting period shall be submitted on the DMR as the 7-DAILY MINIMUM.

(*4) See PART II.6.

(*5) The permittee may substitute Cyprinodon variegatus where required by its current State permit. This substitution is hereby authorized only until such time as the current State permit toxics requirement is complete or expires. At that time, the permittee shall use Menidia beryllina for compliance with its NPDES toxicity testing requirements.

OUTFALL 002

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 002, uncontaminated stormwater.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations			
	Mass(lbs/day)		Other Units (mg/l)	
	Daily Avg	Daily Max	Daily Avg	Daily Max
Flow (MGD)	N/A	N/A	N/A	Report
TOC	N/A	N/A	N/A	75 (*1)
Oil & Grease	N/A	N/A	N/A	15 (*1)
Total Zinc	N/A	N/A	N/A	2 (*1)

Effluent Characteristic	Monitoring Requirements	
	Measurement Frequency	Sample Type
Flow (MGD)	1/day (*2)	Instantaneous
TOC	1/day (*2)	Grab
Oil & Grease	1/day (*2)	Grab
Total Zinc	1/day (*2)	Grab

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/day (*2) by grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At the outfall pipe entering Patrick's Bayou, at a point approximately 750 feet north of Outfall 001

FOOTNOTES

(*1) See PART II.3.

(*2) See PART II.4.

OUTFALL 003

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 003, uncontaminated stormwater.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations			
	Mass(lbs/day)		Other Units (mg/l)	
	Daily Avg	Daily Max	Daily Avg	Daily Max
Flow (MGD)	N/A	N/A	N/A	Report
TOC	N/A	N/A	N/A	75 (*1)
Oil & Grease	N/A	N/A	N/A	15 (*1)
Total Zinc	N/A	N/A	N/A	2 (*1)

Effluent Characteristic	Monitoring Requirements	
	Measurement Frequency	Sample Type
Flow (MGD)	1/day (*2)	Instantaneous
TOC	1/day (*2)	Grab
Oil & Grease	1/day (*2)	Grab
Total Zinc	1/day (*2)	Grab

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/day (*2) by grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At the outfall pipe entering Patrick's Bayou at a point approximately 1650 feet north of Outfall 001

FOOTNOTES

(*1) See PART II.3.
(*2) See PART II.4.

OUTFALL 004

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 004, uncontaminated stormwater.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations			
	Mass(lbs/day)		Other Units (mg/l)	
	Daily Avg	Daily Max	Daily Avg	Daily Max
Flow (MGD)	N/A	N/A	N/A	Report
TOC	N/A	N/A	N/A	75 (*1)
Oil & Grease	N/A	N/A	N/A	15 (*1)
Total Zinc	N/A	N/A	N/A	2 (*1)

Effluent Characteristic	Monitoring Requirements	
	Measurement Frequency	Sample Type
Flow (MGD)	1/day (*2)	Instantaneous
TOC	1/day (*2)	Grab
Oil & Grease	1/day (*2)	Grab
Total Zinc	1/day (*2)	Grab

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/day (*2) by grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At the outfall pipe entering Patrick's Bayou at a point approximately 2450 feet north of Outfall 001

FOOTNOTES

(*1) See PART II.3.
(*2) See PART II.4.

OUTFALL 005

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 005: emergency bypass of rainfall runoff and process wastewater.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations			
	Mass(lbs/day)		Other Units (mg/l)	
	Daily Avg	Daily Max	Daily Avg	Daily Max
Flow (MGD)	N/A	N/A	Report	Report
BOD_5	N/A	N/A	N/A	20 (*1)
TSS	N/A	N/A	N/A	170 (*1)
TOC	N/A	N/A	N/A	115 (*1)
Oil & Grease	N/A	N/A	N/A	15 (*1)
Total Zinc	N/A	N/A	N/A	2 (*1)
Temperature (^oF)	N/A	N/A	N/A	120 (*1)
Ammonia - N	N/A	N/A	N/A	15 (*1)

Effluent Characteristic	Monitoring Requirements	
	Measurement Frequency	Sample Type
Flow (MGD)	1/day (*2)	Instantaneous
BOD_5	1/day (*2)	Grab
TSS	1/day (*2)	Grab
TOC	1/day (*2)	Grab
Oil & Grease	1/day (*2)	Grab
Temperature	1/day (*2)	Garb
Ammonia - N	1/day (*2)	Grab

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored continuously (*2).

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At the outfall pipe entering Patrick's Bayou at a point approximately 250 feet south and 1300 feet west of the northeast corner of plant property.

FOOTNOTES

(*1) See PART II.3.
(*2) See PART II.4.

OUTFALL 006

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 006, uncontaminated stormwater.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations			
	Mass(lbs/day)		Other Units (mg/l)	
	Daily Avg	Daily Max	Daily Avg	Daily Max
Flow (MGD)	N/A	N/A	N/A	Report
TOC	N/A	N/A	N/A	75 (*1)
Oil & Grease	N/A	N/A	N/A	15 (*1)
Total Zinc	N/A	N/A	N/A	2 (*1)

Effluent Characteristic	Monitoring Requirements	
	Measurement Frequency	Sample Type
Flow (MGD)	1/day (*2)	Instantaneous
TOC	1/day (*2)	Grab
Oil & Grease	1/day (*2)	Grab
Total Zinc	1/day (*2)	Grab

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/day (*2) by grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At the outfall pipe entering Patrick's Bayou at a point approximately 1950 feet south and 740 feet west of the northern corner of plant property.

FOOTNOTES

(*1) See PART II.3.
(*2) See PART II.4.

OUTFALL 007

During the period beginning the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall 007, uncontaminated stormwater.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations			
	Mass(lbs/day)		Other Units (mg/l)	
	Daily Avg	Daily Max	Daily Avg	Daily Max
Flow (MGD)	N/A	N/A	N/A	Report
TOC	N/A	N/A	N/A	75 (*1)
Oil & Grease	N/A	N/A	N/A	15 (*1)
Total Zinc	N/A	N/A	N/A	2 (*1)

Effluent Characteristic	Monitoring Requirements	
	Measurement Frequency	Sample Type
Flow (MGD)	1/day (*2)	Instantaneous
TOC	1/day (*2)	Grab
Oil & Grease	1/day (*2)	Grab
Total Zinc	1/day (*2)	Grab

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/day (*2) by grab sample.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): At the outfall pipe from the stormwater retention pond before it enters the East Branch of Patrick's Bayou.

FOOTNOTES

(*1) See PART II.3.
(*2) See PART II.4.

SECTION B. SCHEDULE OF COMPLIANCE

I. EFFLUENT LIMITATIONS COMPLIANCE SCHEDULE

The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

None

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

II. WHOLE EFFLUENT TOXICITY LIMITATIONS COMPLIANCE SCHEDULE

a. The permittee shall achieve sustained compliance with the Whole Effluent Lethality Limitations effective January 10, 1995.

1. The permittee shall initiate and/or continue ongoing activities to include Toxicity Reduction Evaluations (TREs) in accordance with EPA protocols designed to achieve sustained compliance with Whole Effluent Lethality limitations.

2. The permittee shall submit Progress Reports in the months of April and October outlining the status of the activities undertaken and planned to resolve the toxic discharge. Progress Reports shall include at a minimum summary of findings, corrective actions required, and data generated and shall continue until compliance is achieved.

b. No later than 14 calendar days following the date for compliance with the Whole Effluent Lethality limitations, the permittee shall notify the EPA in writing of its compliance or noncompliance.

SECTION C. REPORTING OF MONITORING RESULTS

Monitoring results shall be reported in accordance with the provisions of Part III.D.4 of the permit. Monitoring results obtained during the previous month shall be summarized and reported on a Discharge Monitoring Report form postmarked no later than the 25th day of the month following the completed reporting period.